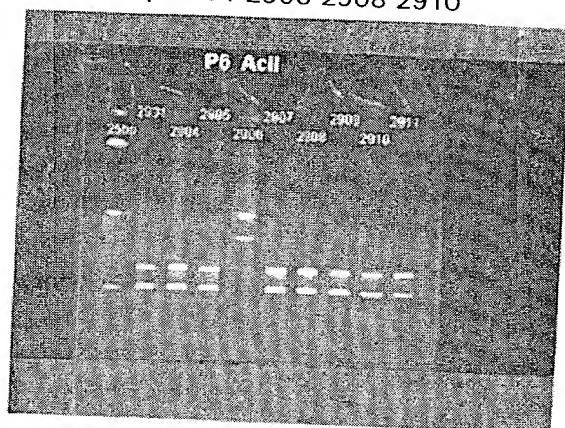


# Replacement Sheet

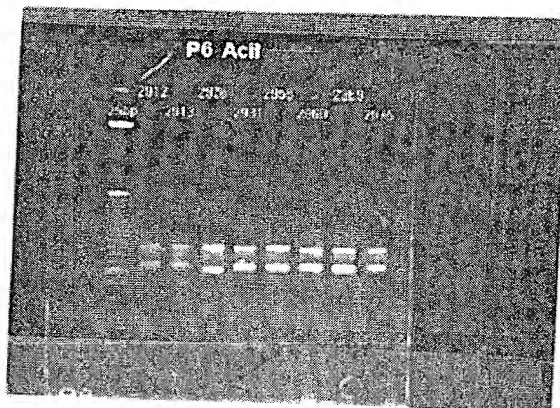
**Fig. 1A**

P6 Acil  
2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910



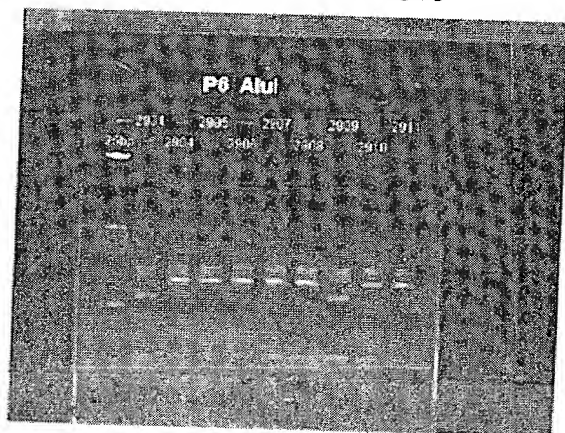
**Fig. 1B**

P6 Acil  
2912 2926 2956 2969  
25bp 2913 2931 2960 2975



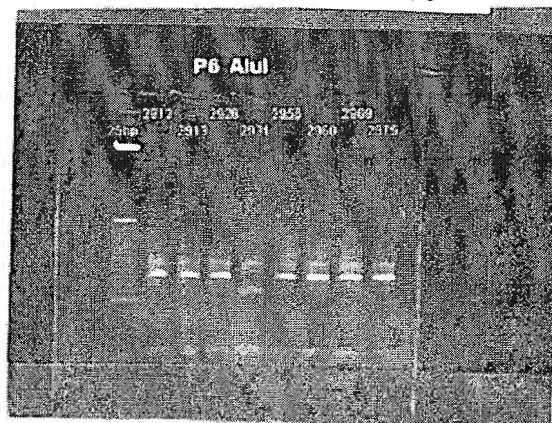
**Fig. 1C**

P6 Alul  
2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910



**Fig. 1D**

P6 Alul  
2912 2926 2956 2969  
25bp 2913 2931 2960 2975





Replacement Sheet

Fig. 1E

P6 Bbvl  
2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

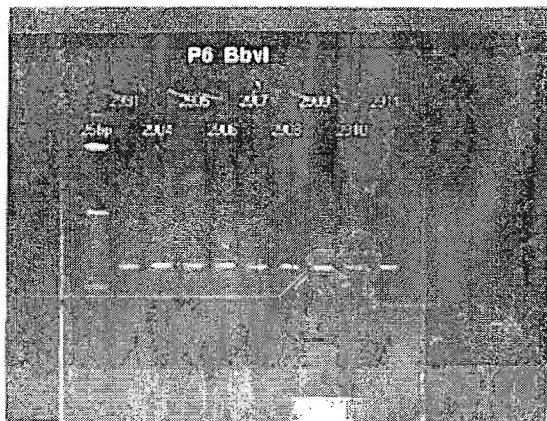
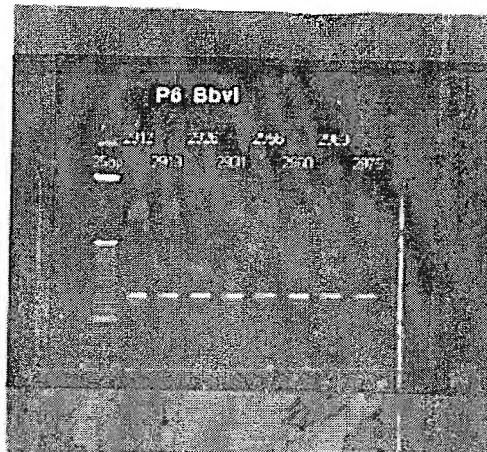


Fig. 1F

P6 Bbvl  
2912 2926 2956 2969  
25bp 2913 2931 2960 2975





Replacement Sheet

Fig. 1G

P6 MaeII

2931  
2905  
2907  
2909  
2911  
25 bp  
2904  
2906  
2908  
2910

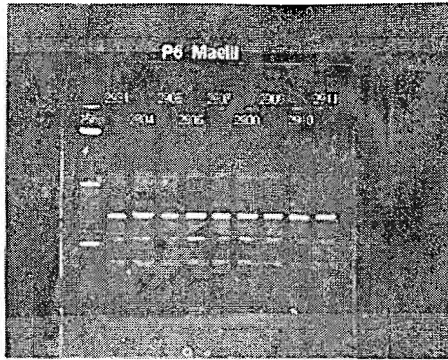


Fig. 1H

P6 MaeII

2912  
2926  
2956  
2969  
25 bp  
2913  
2931  
2960  
2975

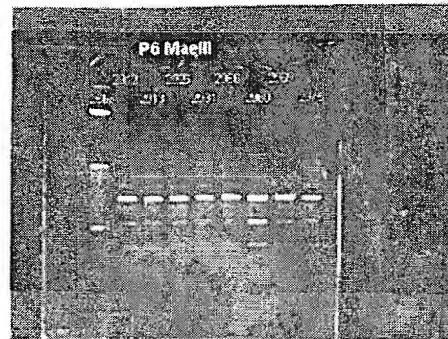


Fig. 1I

P6 MseI

2931  
2905  
2907  
2909  
2911  
25 bp  
2904  
2906  
2908  
2910

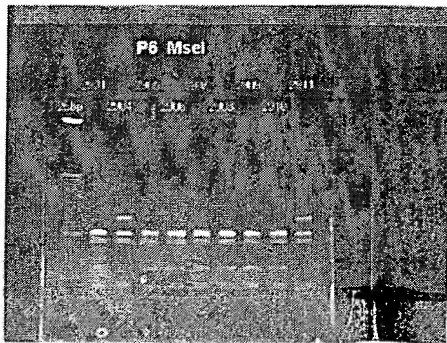
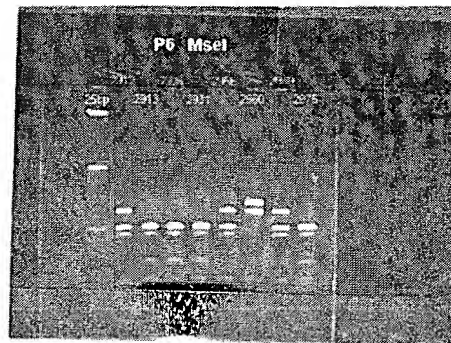


Fig. 1J

P6 MseI

2912  
2926  
2956  
2969  
25 bp  
2913  
2931  
2960  
2975





Replacement Sheet

Fig. 1K

P6 RsaI  
2931 2905 2907 2909 2911  
25 bp 2904 2906 2908 2910

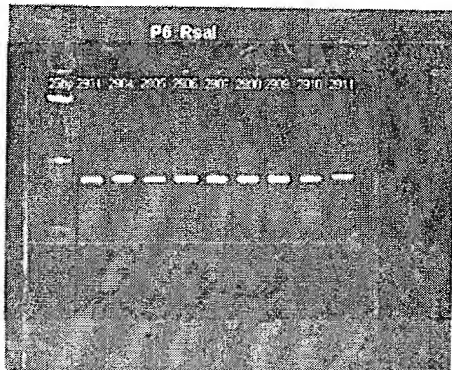
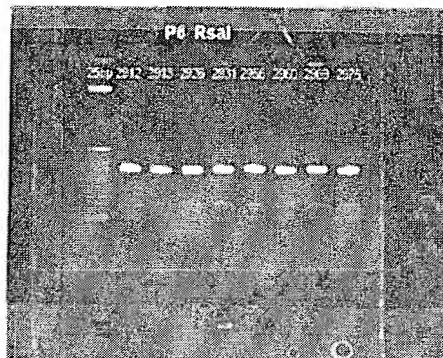


Fig. 1L

P6 RsaI  
2912 2926 2956 2969  
25 bp 2913 2931 2960 2975





# Replacement Sheet

## Fig. 2A

Identity to SeqID No:1 is indicated by a dot.

	*	20	*	40	*
Seqid1	:	ATGATGTTACATATTCAAATTGCCGCCGCTGCCGCCGCTTTATCGGTACT			
	:	50			
Seqid3	:	.....			
	:	50			
Seqid5	:	.....			
	:	50			
Seqid7	:	.....T.....			
	:	50			

	60	*	80	*	100
Seqid1	:	AACTTTTATGACAGGCTGTGCCAATAAATCAACAAGTCAAGTTATGGTTG			
	:	100			
Seqid3	:	.....			
	:	100			
Seqid5	:	.....			
	:	100			
Seqid7	:	.....			
	:	100			

	*	120	*	140	*
Seqid1	:	CTCCTAATGCACCCACAGGTTACACTGGGGTTATCTATACTGGTGTTGCA			
	:	150			
Seqid3	:	.....			
	:	150			
Seqid5	:	.....			
	:	150			
Seqid7	:	.....G.....G.....C.....C.....			
	:	150			



# Replacement Sheet

## Fig. 2B

	160	*	180	*	200
Seqid1	: CCTTTGGTAGATAATGATGAGACCGTTAAGGCTCTGGCAAGCAAGCTACC				
: 200					
Seqid3	: .....		A.....	C.....	
: 200					
Seqid5	: .....	TA.C...	A..T.....	C.....	
: 200					
Seqid7	: .....	C.....	T.....	C.....	
: 200					

	*	220	*	240	*
Seqid1	: CAGTTTGGTTTATTTTGACTTTGATTCTGATGAGATTAAACCGCAAGCTG				
: 250					
Seqid3	: .....				
: 250					
Seqid5	: .....				
: 250					
Seqid7	: .....				
: 250					

	260	*	280	*	300
Seqid1	: CTGCCATCTTAGACGAACAAGCACAATTTTAAACCACCAATCAAACAGCT				
: 300					
Seqid3	: .....				
: 300					
Seqid5	: .....				
: 300					
Seqid7	: .....				
: 300					



Replacement Sheet

Fig. 2C

                  \*          320                  \*          340                  \*

Seqid1 : CGTGTTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAA  
: 350

Seqid3 : .....  
: 350

Seqid5 : .....  
: 350

Seqid7 : .....  
: 350

                  360                  \*          380                  \*          400

Seqid1 : TATGTCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTTGCTTG  
: 400

Seqid3 : .....T.....  
: 400

Seqid5 : .....  
: 400

Seqid7 : .....A  
: 400

                  \*          420                  \*          440                  \*

Seqid1 : GTAAAGGCATTAATCAAGCCAGCGTTGAGATTATCAGTTTTGGTGAAGAA  
: 450

Seqid3 : .....  
: 450

Seqid5 : .....  
: 450

Seqid7 : .....C.....  
: 450



Replacement Sheet

**Fig. 2D**

	460	*	480	*	500
Seqid1	:	CGCCCTATCGCATTTGGCACAAATGAAGAAGCATGGTCACAAAATCGTCG			
	:	500			
Seqid3	:	.....			
	:	500			
Seqid5	:	.....			
	:	500			
Seqid7	:	.....			
	:	500			

	*	
Seqid1	:	TGCTGAACTGTCTTATTAA : 519
Seqid3	:	..... : 519
Seqid5	:	..... : 519
Seqid7	:	..... : 519





Replacement Sheet

Fig. 3A

Identity to SeqID No:2 is indicated by a dot.

```
          *          20          *          40          *
Seqid2   : MMLHIQIAAAAAALSVLTFMTGCANKSTSQVMVAPNAPTGYTGVIYTGVA
: 50
Seqid4   : .....
: 50
Seqid6   : .....
: 50
Seqid8   : .....A.....
: 50
```

```
          60          *          80          *          100
Seqid2   : PLVDNDETVKALASKLPSLVYFDFDSDEIKPQAAAILDEQAQFLTTNQTA
: 100
Seqid4   : .....T.....
: 100
Seqid6   : .....I.T...T.....
: 100
Seqid8   : .....T.....
: 100
```

```
          *          120          *          140          *
Seqid2   : RVLVAGHTDERGSREYNMSLGERRAVAVRNYLLGKGINQASVEIISFGEE
: 150
Seqid4   : .....
: 150
Seqid6   : .....
: 150
Seqid8   : .....S.....
: 150
```



Replacement Sheet

**Fig. 3B**

160

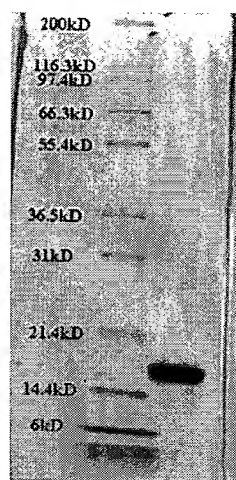
\*

Seqid2 : RPIAFGTNEEAWSQNRRRAELSY : 172  
Seqid4 : ..... : 172  
Seqid6 : ..... : 172  
Seqid8 : ..... : 172



## Replacement Sheet

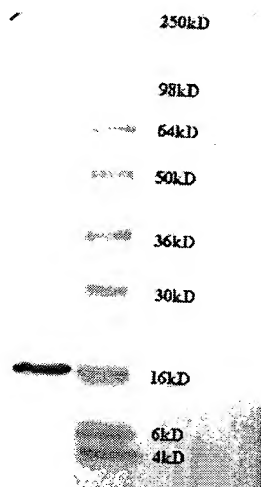
**Figure 4: Coomassie stained SDS-PAGE of BASB019 protein**

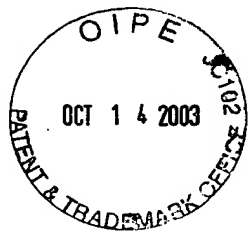




## Replacement Sheet

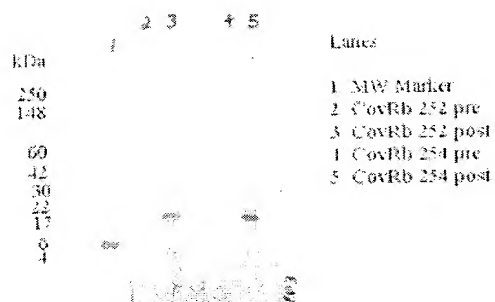
**Figure 5: Western-blot with tetra-His antibody of BASB019 protein**





## Replacement Sheet

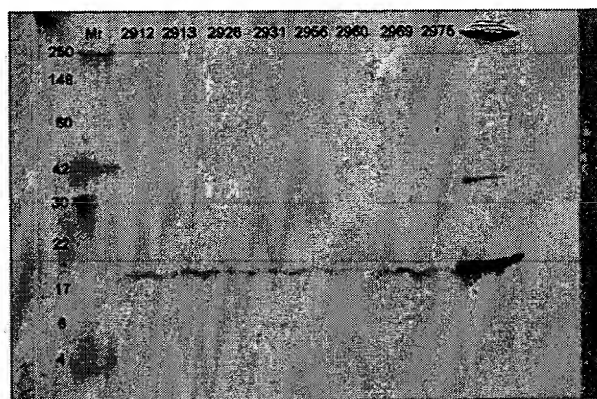
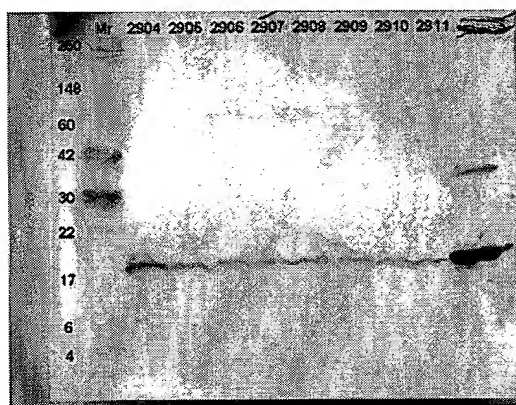
**Figure 6: Western-blot of purified recombinant BASB019 protein probed with the corresponding anti-recombinant protein sera at 1:200**





# Replacement Sheet

**Figure 7: Western-blot of whole cell lysates of 16 strains of *M. Catarrhalis* using pooled sera against the recombinant BASB019 protein. Sera was diluted 1:2000**





## Replacement Sheet

**Figure 8: Western-blot of purified recombinant BSAB019 protein probed with pooled human convalescent sera at 1:100**

